IN THE CLAIMS:

Please amend claims as follows.

1. (currently amended) Method for the species-specific and quantitative detection of central nervous system (CNS) [[CNS]] tissue in meat and meat products,

~~Characterised by~~ comprising the steps

a) ~~Preparation~~ preparing of the sample material and RNA extraction

b) ~~Reverse Transcription~~ reverse transcribing of the RNA [[in]] into cDNA

c) ~~Analysis~~ analyzing of the cDNA of the gilial fibriliary acidic protein (GFAP) [[GFAP]] gene in real-time PCR, wherein the real-time PCR is carried out with a pair of primers selected from the group comprising

a first pair of primers, namely

SEQ ID NO 1: Primer RTGcowM56F2a 5´-ACC TGC GAC CTG GAG TCC T-3´

and

SEQ ID NO. 2: Primer RTGcowM56R2a 5´-CTC GCG CAT CTG CCG-3´,

a second pair of primer, namely

SEQ ID NO. 4: Primer RTGpigM56F2 5´-GAC CTG CGA CGT GGA GTC CC-3´

SEQ ID NO. 5: Primer RTGpigM56R2 5´-TGG CGC TCC TCC TGC TCC -3´,

and pairs of primers comprising a forward and a reverse primer having a sequence identity of at least 40% to said first or said second pair of primers;

and wherein the real-time PCR is carried out using a $TagMan_{mgb}$ sensor spanning the boundary between exon 5 and exon 6 of the GFAP gene.

2. canceled

3. (currently amended) Method according to claim 1 ~~characterised by~~ comprising the fact that the preparation of the sample material occurs by homogenization ~~homogenisation~~, preferably by a combination of vertical rotation movements and horizontal up-and-down movements.

4. (currently amended) Method according to claim 1 ~~characterised by~~ comprising the fact that the RNA extraction occurs by means of lysis and extraction on phenol basis so that RNA is also extracted from matrices with a particularly high concentration of fatty acids.

5. (currently amended) Method according to claim 1 ~~characterised by~~ comprising the fact that the real-time PCR is carried out for bovine, ovine and caprine animals with

SEQ ID NO. 3

~~Primer RTGcowM56F2a 5´-ACC TGC GAC CTG GAG TCC T-3´~~

~~Primer RTGcowM56R2a 5´-CTC GCG CAT CTG CCG-3´~~

TaqMan$_{mgb}$ sensor OptiR6-FAM-ACT CGT TCG TGC CGC GC-MGB.

6. (currently amended) Method according to claim 5 ~~characterised by~~ comprising the fact that Primer RTGcowM56F2a or Primer RTGcowM56R2a is used with the $TaqMan_{mgb}$ sensor OptiR.

7. (currently amended) Method according to claim 1 ~~characterised by~~ comprising the fact that real-time PCR is carried out for porcine animals with the following primer ~~primers~~:

SEQ ID No. 6

~~Primer RTGpigM56F2 5´-GAC CTG CGA CGT GGA GTC CC-3´~~

~~Primer RTGpigM56R2 5´-TGG CGC TCC TCC TGC TCC 3´~~

$TaqMan_{mgb}$ sensor OptiR 6-FAM-ACT CGT TCG TGC CGC GC-MGB.

8. (currently amended) Method according to claim 7 ~~characterised by~~ comprising the fact that Primer RTG RTGpigM56F2 or Primer RTG pigM56R2 is used with the $TaqMan_{mgb}$ sensor OptiR.

9. (currently amended) Method according to claim 1 ~~characterised by~~ comprising the fact that it is carried out in heat-treated meat and meat products.

10. (currently amended) ~~Utilization of the method according to claim 1, for the species-specific and quantitative detection of CNS tissue in meat and meat products~~ A

method of species specific and quantitative detection of CNS tissue in meat and meat products using the method of claim 1.

11. (currently amended) Test kit for the species-specific and quantitative detection of central nervous system (CNS) [[CNS]] tissue in meat and meat products, containing, at least, material for the species-specific and quantitative analysis of the GFAP cDNA, comprising the fact that the material for real time-PCR of the extracted GFAP mRNA for the detection of bovine, ovine and caprine animals are Universal PCR Master, $MgCl_2$, SEQ ID No. 1: Primer RTGcowM56F2a 5´-ACC TGC GAC CTG GAG TCC T-3´, SEQ ID No. 2: Primer RTGcowM56R2a 5´-CTC GCG CAT CTG CCG-3´ and SEQ ID No. 3: $TaqMan_{mgb}$ sensor OptiR 6-FAM-ACT CGT TCG TGC CGC GC-MGB and/or comprising the fact that the material for real time-PCR of the extracted GFAP mRNA for the detection of porcine animals are Universal PCR Master, $MgCl_2$, SEQ ID No. 4: Primer RTGpigM56F2 5´-GAC CTG CGA CGT GGA GTC CC-3´, SEQ ID No. 5: Primer RTGpigM56R2 5´-TGG CGC TCC TCC TGC TCC -3´ and SEQ ID No. 6: $TaqMan_{mgb}$ sensor OptiR 6-FAM-ACT CGT TCG TGC CGC GC-MGB.

12. (currently amended) Test kit for the species-specific and quantitative detection of CNS tissue in meat and meat products according to claim 11, containing material for RNA extraction as well as suitable reaction buffers and/or material for the reverse transcription of the extracted GFAP mRNA.

13. (currently amended) Test kit for the species-specific and quantitative detection of CNS tissue in meat and meat products according to claim [[12]] 11, characterised by the fact that the material for the reverse transcription of the extraction of mRNA ~~RNA extraction~~ are RNAse-free water, Reverse Transcriptase (RT) buffers, $MgCl_2$, 2´-Deoxyribonucleoside-5´-triphosphate (dNTP), random hexamers, RNAse inhibitor and reverse transcriptase.

14. (currently amended) Test kit for the species-specific and quantitative detection of CNS tissue in meat and meat products according to claim 11, ~~characterised by~~ comprising the fact that a transcription control is contained in the form of a GFAP mRNA for the supervision of a successful transcription process of the isolated GFAP mRNA into cDNA.

15. canceled

16. canceled

17. (currently amended) Test kit for the species-specific and quantitative detection of CNS tissue in meat and meat products according to claim 11, ~~characterised by~~ comprising the fact that it contains a positive control in the form of the GFAP cDNA of bovine and/or porcine animals and a negative control in the form of the GFAP

cDNA of bovine and/or porcine animals, an internal amplification control as well as reference samples for the quantification of the examined test samples.

18. (currently amended) Test kit for the species-specific and quantitative detection of CNS tissue in meat and meat products according to claim 11, ~~characterised by~~ comprising the fact that the reference samples are dilution series, samples with defined CNS content and/or a reference gene.

19. (new) The method according to claim 1, wherein the sequence identity is one of at least 60 %, more than 80 %, and more than 90 %